

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A SCHOOL HAZARD IDENTIFICATION BEACON ON EASTBOUND AND WESTBOUND MD 22 (CHURCHVILLE ROAD) APPROACHING MARY MAGDALEN SCHOOL ENTRANCE IN HARFORD COUNTY. MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL OPERATE IN A FLASHING MODE DURING SHOOL OPENING AND DISMISSAL PERIODS.

CONTROLLER REQUIREMENTS

INSTALL TWO-CIRCUIT FLASHER UNIT WITH PHOTOCELL, DIMMER SWITCH AND INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	2 EACH	TWO CIRCUIT FLASHER UNIT WITH PHOTOCELL, DIMMER SWITCH AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	18 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH S1-1 SIGN (B/FYG) (36 IN. X 36 IN.)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 C.Y.	TEST PIT EXCAVATION
8001	2 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	2 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE)
8019	2 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	200 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	40 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8029	90 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8043	160 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8047	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 8 A.W.G. - THHN/THWN
8048	60 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8053	18 S.F.	INSTALL OVERHEAD SIGN
8069	2 EACH	FURNISH AND INSTALL PHOTOCELL
8084	4 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8093A	2 EACH	METERED SERVICE PEDESTAL

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12  
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)  
STANDARD NO. MD-104.33-01 (SHOULDER WORK)  
STANDARD NO. MD-104.35-01 (LANE SHIFT)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. DAVE MALKOWSKI  
DISTRICT ENGINEER  
PHONE: (410) 321-3461

MR. JOE McMAHON  
DISTRICT UTILITIES ENGINEER  
PHONE: (410) 321-3456

MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-3514

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

MR. DAVE RAMSEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-3468

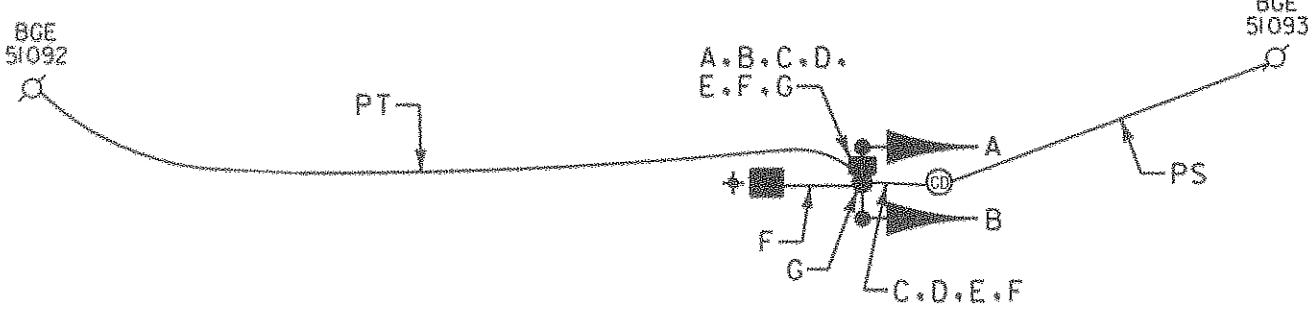
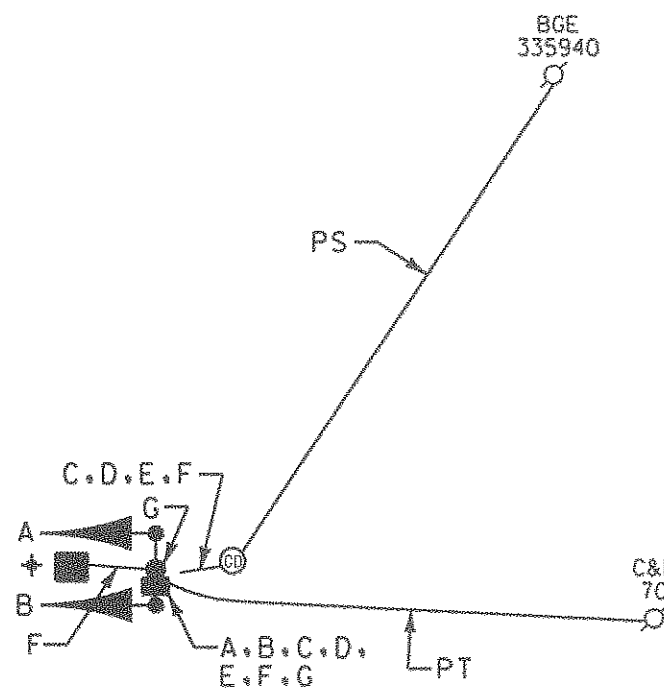
WIRING DIAGRAM

EASTBOUND MD 22 - HIB


WESTBOUND MD 22 - HIB

WIRING KEY

- A B C } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C D E } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
- F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.).
- PS - PROPOSED UNDERGROUND ELECTRICAL SERVICE
- PT - PROPOSED UNDERGROUND TELEPHONE SERVICE
- + - 3/4 IN. X 10 FT. GROUND ROD



**WR&A**  
Whitman, Requardt  
and Associates, LLP  
2315 Saint Paul Street  
Baltimore, Maryland 21218  
(410) 235-3450

 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET MD 22 (CHURCHVILLE RD) & MARY MAGDALEN SCHOOL ENT. HAZARD IDENTIFICATION BEACONS			
DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	SHEET NO. 2 OF 2
CHECKED BY: N. LEARY	S.H.A. NO.	TS-4118	
SCALE: NONE	COUNTY: HARFORD	T.I.M.S. NO. E732	
DATE: 6/29/01	LOG MILE:		